smart cube

smartcube™

Productive, intuitive
and user-friendly.

smartcube™ is PackSys Global's digital service platform for 24/7 analysing, monitoring and maintaining your portfolio of machines. It is based on industry standards (OPC UA, PackML) and programmed in HTML5 with responsive design enabling access on any device on any platform. smartcube™ is available either on a secure server located on the customer's network or in the cloud.

smartcube™'s intuitive design allows all desired information to be found quickly. Powerful modules enable monitoring and analysis of the production as well as the condition and status of each machine. In addition to a cockpit that shows the most important information the main modules are:

- Production
- Maintenance
- Energy
- e-Learning
- Parts

Parts
smartcube™'s «Parts» solution gives access to machine relevant information anywhere and anytime during your machine's entire life cycle. It provides an interactive platform for users to understand the assemblies and the components of machines. «Parts» is the successor to PackSys Global's innovative e-portal solution.
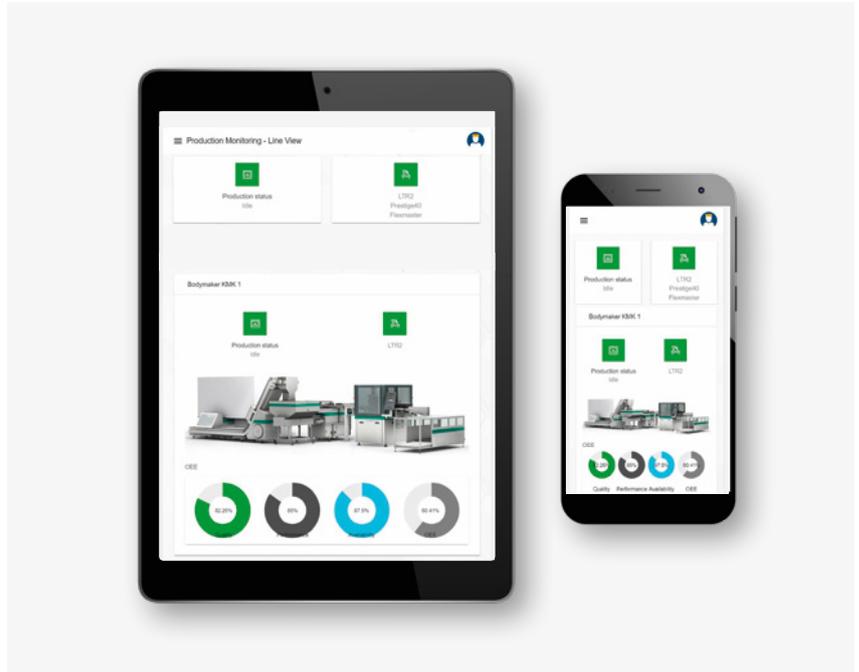
Cockpit
With the cockpit all authorized users from the company can check with one click the status of a single machine, line, plant or, for larger customers, all worldwide production locations. The actual progress of the ongoing production batches are displayed as well as the maintenance indicator of each machine.

Production

Increase your production efficiency by using the «Production» module. The main purpose is to provide an overview of the live production state of the plant. This enables managers to track progress in real-time and take corrective action if the progress is not as planned.

On one hand the actual production status and progress can be watched, on other hand data in the past can be analysed. Access through both desktop computers as well by mobile devices is supported. smartcube™ calculates and tracks overall equipment effectiveness (OEE) values to allow managers to track the source of any performance issues.

Energy

When you want to reduce your carbon footprint the first step is to know about the energy consumption of your equipment. Measuring energy includes electrical energy, consumption of compressed air and cooling water. The analysis of the data is the next step to optimise the consumption and to save money. smartcube™'s «Energy» Module supports customer efforts to reduce all kinds of energy expenditure.

Maintenance

Keeping machines in optimal condition at minimal cost is the main target of smartcube™'s «Maintenance» module. Reducing unplanned downtime of machines is the central goal.

Predicting the lifetime based on usage of components is the key factor to reduce the overall cost. An intelligent prediction algorithm tracks the lifetime and usage of components. Maintenance activities can be planned more accurately and effectively so that components are replaced during scheduled maintenance intervals rather than encountering situations where components fail and replacement parts and/or trained service resources are not immediately available.

Knowing if a machine is «healthy» or not is a tremendous advantage. A health status indicator is the key element of condition monitoring. A proprietary algorithm evaluates the actual data of the components in real-time and calculates a simple, recognizable status flag. Once a component is running out of its specification the status flag shows a warning or even an error.

e-Learning

Initial and refresher training of all personnel ensures a high productivity of a plant. smartcube™'s «e-Learning» module provides comprehensive learning sessions for the operations / processes like changing of sizeparts and machine set-up.

As safety is always our #1 priority, hands-on safety sessions are provided as basics.

CREATING PACKAGING TECHNOLOGY