km

Cutting room total solution
km-PCM
Plan and Cutting Management

- ▶ **Auto calculation of Spreading/ Cutting plan**
- ▶ **Operating schedule control**
- ▶ **Link Spreader/Auto cutter**
- ▶ **Information sharing of cutting progress**

One step ahead by spreading/ cutting management with IoT technology

km-PCM achieves a central management of the complicated workflow related to cutting, including cutting plan, cutting data creation, fabric inventory control, operating schedule control, spreading, inspection, cutting, etc.

km-PCM corresponds to the needs from any field, makes working time shorter and gives the solution to the loss. Aim for the optimization of works. The unique Cloud computing system can save the initial investment, achieve the high level of security and the rapid recovery from unexpected troubles. km-PCM can provide the solution of important subjects, the growth of the business and the maximization of the benefit.

Smooth search, control and share of the information

The progress can checked and shared by authority management from any device in another location including overseas.
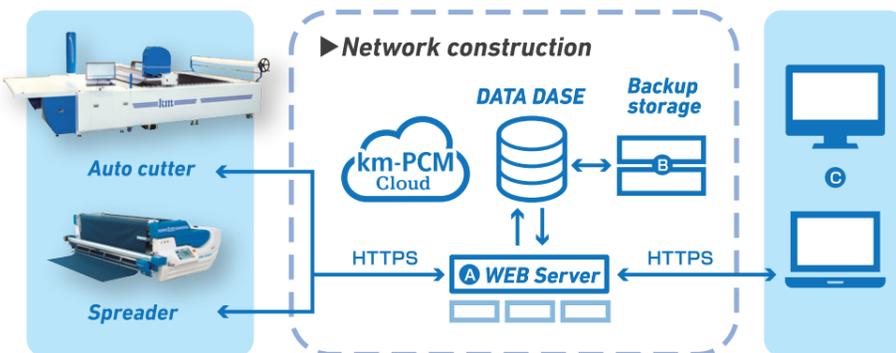
km-PCM information retrieval

Any necessary information related to cutting can be searched from the accumulated database. Function to customize what is searching.

km-PCM Cloud

Auto search →

For example
- ● **Scheduled date of cutting**
- ● **Expected date of cutting completed**
- ● **Daily/Monthly production**
- ● **Production of each products**
- ● **Expected fabric length at each color**
- ● **Actual fabric length at each color**
- ● **Subjects on cutting**
- ● **Actual production of spreading/ cutting by each operator**

Cloud with High level of security on the assumption of usage abroad

▶ **Network construction**

- Auto cutter
- Spreader
- km-PCM Cloud
- DATA DASE
- Backup storage
- HTTPS
- Ⓐ WEB Server
- HTTPS
- Ⓒ
- Ⓑ

Ⓐ WEB Server is a virtual server in Cloud system. Hardware can be increased as much as necessary (Storage, CPU, Memory, etc.)

Ⓑ The system can have a rapid recovery to malfunction in failure because Backup data must be dispersed and encrypted for a secure save, and it can be used by the remote control on Management portal.

Ⓒ No need to install the dedicated software. Usable with a standard browser.

AGENT

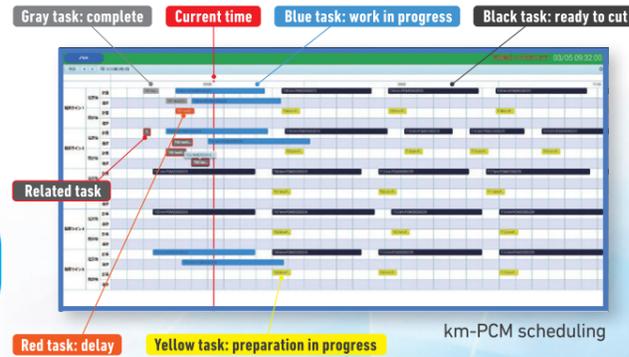# CUTTING PLAN MANAGEMENT SYSTEM

Complete Cutting Plan Automation & Visualization of Cutting Process

Scheduling & Progress management of Spreading/Cutting

- Task entered for scheduling can be monitored with Gantt chart.
- The estimated complete time can be found at the length of task.
- Progress is separated from Scheduling to understand the status at a glance.
- Tasks has different colors at each status.

▶ **Progress screen**

Gray task: complete | Current time | Blue task: work in progress | Black task: ready to cut

Related task

Red task: delay | Yellow task: preparation in progress

km-PCM scheduling

Km Spreader and Auto cutter Batch control system with IoT technology. Monitoring task progress in real time.

IoT coordination with Spreader/Auto cutter

- Operating instruction and data are sent to each device once a task is ready.
- Progress status of spreading & cutting can be displayed at percentage (%) on Progress screen.
- Error status of each device can be confirmed.

Wifi corresponding km Auto cutter

Operating instruction

▶ **Operating instruction of spreader**
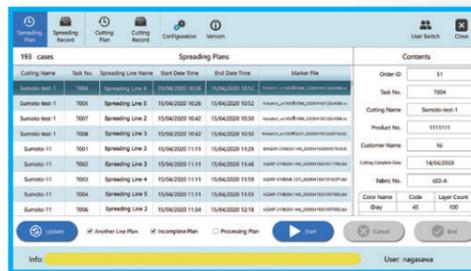
Operating instruction screen on km-PCM-Spreader

Wifi corresponding km Spreader

Reporting the progress and errors

- Spreading instruction is made for each spreader individually.

▶ **Operating instruction to the spreader for the compensation of damage/stain on the fabric**
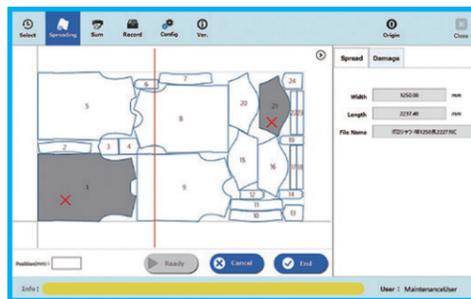
Screen of the compensation of damage/stain on the spreader

- When task is selected, the spreading length and the number of lay can be set automatically.
- The marker is displayed on the monitor, and the current spreading position is indicated.
- Function to input damage/stain position, and to output aggregation of the damaged parts on each layer.

▶ **km-PCM-CAM Cutting instruction to Auto cutter**
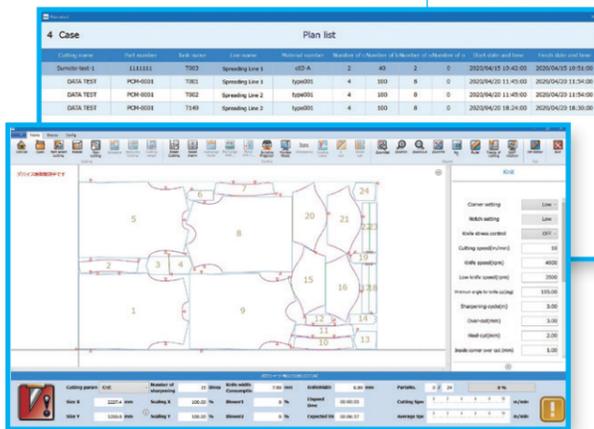
km-PCM-CAM Cutting order screen

- Task whose spreading was completed is displayed.
- Cutting data is automatically transferred upon click of a task.

Accessible to km-PCM from any place in the world!

km-PCM Cloud computing

F e a t u r e s

1. No extra server cost
2. No installation of the software
3. High level of safety and security
4. Accessible from any location
5. Straight-feeling operation on a browser

Auto creation of Spreading/Cutting plan

Entry of necessary contents (e.g. size, the numbers of order)

Spreading/Cutting plan is created automatically. And the data can be shared with CAD room.

Management of Cutting plan

Creation of Cutting data

Auto creation of Spreading/Cutting plan

Cutting plan can be created automatically by entering the number of pieces and expected date of cutting completed as per Sewing and Production plan. km-PCM enables the operator to complete Cutting plan precisely in a short term.

▶ **Order creation**

- Cutting plan should be created by order.
- The necessary information can be imported from another device.
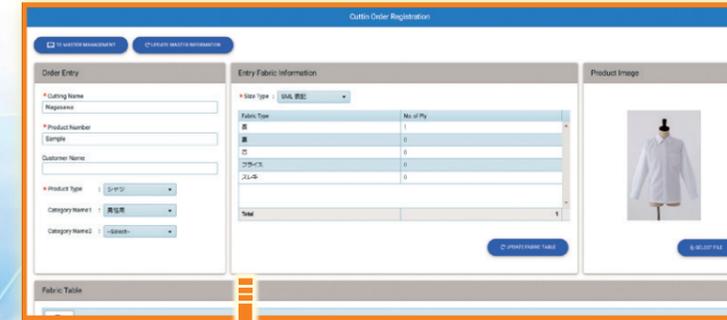
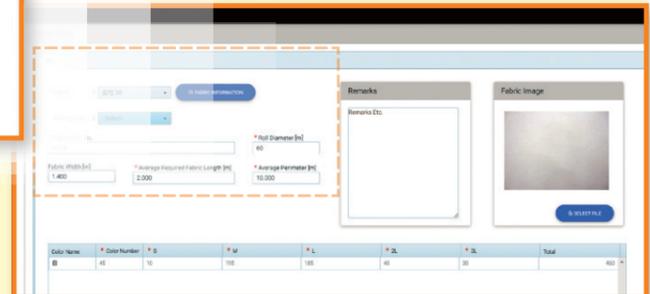Cutting order screen

▶ **Entry of cutting**

- Enter the conditions related to spreading.
- Enter the number of products at size and color individually.

Screen to enter the number of products at each fabric
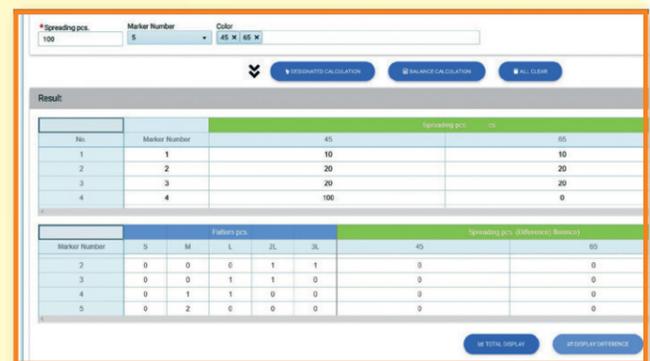
▶ **Auto created Spreading plan**

- Spreading/Cutting plan can be created by auto calculation upon the entry of the number of products and spreading conditions.

▶ **Registration of the schedule**

- Spreading task is calculated from spreading length and the number of lay. The length of Cutting task is calculated from total cutting length.
- The created tasks can be controlled on Progress screen after the scheduling registration.

Screen to check the auto created spreading plan

Instruction to make cutting data

- CAD operator should create cutting data for each cutting task, and register them on the system.
- Once the cutting data is registered, the accurate cutting time can be calculated from the actual marker length and total cutting length.
- The registered data is sent to each device automatically.

Marker registered