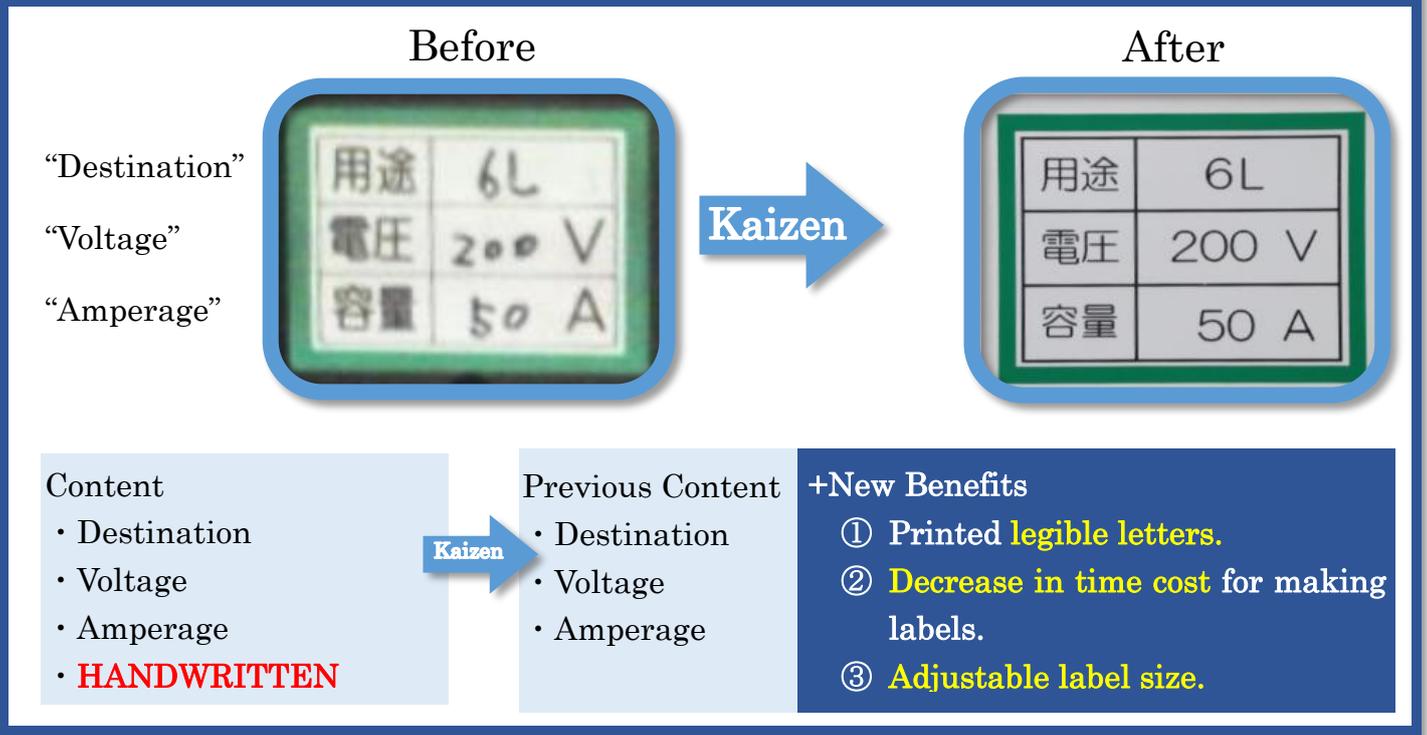


Company C is a large scale manufacturer of electrical appliances. They recently invested in our Bepop CPM-100 series printer, which helped them realize huge time savings for their factory maintenance.

Circuit Breaker Labels : Company C



Background : The factory line for C company has about 150 circuit boxes, and on average there are 26 circuit breakers per box (about 3,900 total). In order to safely manage the electrical supply for the line, circuit breaker labels are applied to organize the breakers and the equipment. Before investing in Bepop, the company ordered labels in 1,000 lots from a third party, and hand wrote the information themselves.

The handwritten labels were difficult to read, and the safety department eventually **banned handwritten labels**. As a result, the maintenance department attempted to reapply all the labels using a regular office labeler to fill in the lines one at a time.

Company C encountered the following 3 problems

① “Making the printed tape was difficult”



“Making the printed tapes using a standard office labeler is difficult and time consuming. Because there is a space between where the tapes come out of the machine and where the letters are printed, the first part of the tape is always blank. We thought this was wasteful, so instead we printed tapes in one long strip and hand cut them ourselves. After we finished cutting the labels, we organized them into different trays.”

“When it became necessary to make a circuit breaker label, **we had to sort through the tray to find tapes we needed**. After we made the tapes, we applied them to the circuit breaker label, and then applied the label to the circuit breaker.”(M group leader)

② “It took too much time to make the labels”

Company C was making the labels one electrical box at a time using the office labeler and labeling tray method. They had to make 26 labels for every electrical box. The following is a summary of the change in their workflow after the introduction of Bepop:

Previous Workflow

- 1) List the label information in a spreadsheet.
 - 2) Input the numbers into the label printer (Using the spreadsheet list as reference).
 - 3) Print the label tape.
 - 4) Cut the tape **by hand**.
 - 5) **Organize the tape** in the tray.
 - 6) **Look for tape** in the tray (using the spreadsheet list as a reference).
 - 7) **Apply the tape** to the label.
 - 8) Apply the label to the circuit breaker.
- It took 1 worker half a day(3 hours) to complete this task.

Workflow Using Bepop

- 1) List the label information in a spreadsheet
 - 2) Connect Bepop PC software with spreadsheet list.
 - 3) Print the labels.
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 - 4) Apply the labels to the circuit breaker.
- It took 1 worker **less than 30 minutes** .

Time

Previous Time Cost :
3 Hours × 150 Boxes = 450 Hours
Time Cost With Bepop : **△約 375 時間**
0.5 Hours × 150 Boxes = 75 Hours (Max's Estimate)

The Bepop printing and cutting machine is able to connect to a spreadsheet, and print out formatted labels using the information from the spreadsheet. Since all of the organization and printing process are handled digitally, Company C has realized

significant time savings. They reported that making the spreadsheet took 10 minutes, connecting to the printer software took 5 minutes, and printing the labels took about 13 minutes. In **less than 30 minutes** they were able to make the 26 labels they needed. “I was previously worried about the cost of buying a new printer, but I began to realize that the printer and label system was far less expensive than my workers’ time. Our investment in Bepop helped us finish this project months ahead of schedule.”(M group leader)

③ “The labels we ordered were too big in some cases”



The Labels Were Oversized

“The minimum order quantity was 1000 labels. This means that we had to order labels that were all the same size. There were a number of panels where the circuit breakers were spaced too close together, and the labels ultimately overlapped. Bepop is able to freely cut any shape into a label, which means **we could make smaller labels when we needed them.** We are very pleased with this particular function.”(Group Leader Mr. M)

Case Results

- 1) C company was able to realize huge time savings (About 375 hours).
- 2) They are now able to make the labels without dealing with the hassle of reorganizing printed tape.
- 3) They are now able to adjust the label size to the size of the circuit breaker.
- 4) They eliminated handwritten labels quickly and efficiently.

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